General Facts About Coal

miles. Measurable quantities are found in 38 states; in 31 of them the coal is Coal is widely distributed throughout the United States, with 39% occurring in states east of the Mississippi River and 61% in western states and Alaska. considered mineable, and mining operations currently take place in 28 states. Coal underlies 13% of total U.S. land area, encompassing some 458,000 s

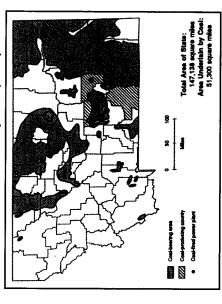
deeb / Thick, relatively flat coal beds at depths of less than 200 feet below the surface methods. The Energy Information Administration estimates that about 32% of the total demonstrated reserve base can be mined with surface methods, with 75% of this coal located west of the Mississippi River. Conversely, 54% of the demonstrated reserve base coal requiring underground mining is located in beneath the surface generally must be extracted through underground mining are particularly suitable for surface mining. Coal beds that dip or lie very states east of the Mississippi.

Coal in the U.S. is mined from about 400 beds or veins, but approximately 47% of annual production comes from only about 10 beds. Coal beds are generally thick-Although the thickness of the coal beds mined ranges from less than 2 feet to ness of coal beds mined is a little more than 4 feet in the Appalachian states, orces. about 100 feet, most of the mining is in beds 2-8 feet thick. The average flat lying, but may be inclined, folded or faulted as a result of geologic about 6 feet in the Midwest, and about 30 feet in the West.

		Ranked by	2010	
	Reserve Base	Reserve	Production	Ranked by
State	(Billions of Tons)	Base	(Millions of Tons)	Production
Montana	119.0	-	44.7	S
Illinois	104.2	2	33.2	∞
Wyoming	61.0	8	442.5	
West Virginia	31.7	4	135.6	2
Kentucky	29.1	S	104.4	3
Pennsylvania	26.9	9	58.0	4
Ohio	23.1	7	27.3	10
Colorado	15.9	∞	25.2	11
Texas	12.1	6	41.6	9
New Mexico	12.0	10	21.0	12
Indiana	9.2	11	35.3	7
North Dakota	8.9	12	28.9	6
Alaska	6.1	13	2.2	14
Missouri	0.9	14	٠Ċ	15
Utah	5.2	15	19.3	13

^{*} Source: U.S. Energy Information Administration

reserves with 119 billion tons. The Energy Information Administration estimates that i billion of those tons are presently recoverable reserves. This includes only coal that is mineable from producing coal mines. At the present rate of mining, approximately Of the 15 major coal-producing states, Montana ranks first in coal resources and 40 million tons per year, Montana could sustain over 25 years of mining from presently mineable coal. In terms of the coal reserve base, if it all became mineable, and mined at the current rate, it would sustain mining for nearly 3,000 years.



Surface Mining and Reclamation

Surface coal mining companies are required to reclaim and return mined land to a productive capacity that is equal to or better than before mining occurred.

The first step taken is to remove the top soil from an area to be mined, stockpile The reclamation operation takes place concurrently with the mining operation. it and stabilize it with temporary vegetation to prevent erosion.

The initial removal of overburden (the remaining material covering the coal) is To loosen the overburden for the dragline, it is blasted. The coal is fractured in the same way and then removed by large loaders, deposited in coal haulers and called a box cut and the cavity that is left when the coal is removed will receive the overburden from the second cut. In most cases, a dragline is used to lift overburden from a new section and deposit it in the section that has just been mined. transported to the mine storage and loading facility.

that are prescribed by the regulatory agency. In some cases, ponderosa pine and ers smooth it out and contour it to blend with the surrounding landscape. This process is much like that employed in construction projects. After that, reclamation becomes very similar to any farming operation. The soil is scarified to guard against erosion, top soil is replaced and the area is planted with seed mixtures other woody plants are part of the approved reclamation plan. Companies may apply a fiber mulch to further protect against erosion and while fertilizer may Once the dragline has deposited overburden over the mined-out cavity, bulldog be used during the early growing seasons, irrigation has not been necessary.

Before any company is permitted to mine, it is required to post a bond sufficient to cover the cost of reclamation if an operator fails with his reclamation efforts. That bond is not released until successful reclamation is verified. Based on precipitation rates in the West, the law dictates that, in no case, can the bond be released sooner than ten years from the date of seeding.

Royalties

Unlike a tax paid to government on the production of coal or its realized profits, royalties are a monetary payment to the owner of the coal as agreed upon in the terms of pre-mining leases. State and federal government still are major beneficiaries of these payments, however, because a large percentage of government, with payments from the coal producing school sections going to the state. In addition, the 1976 federal leasing law mandates that 50 percent of the the mineral right ownership of coal in Montana has been retained by the federal royalties collected from development of federal leases be returned to the state Other coal lessors include Indian tribes and private (or fee) owners.

Best Available Figures for Cumulative Royalty Payments from Montana Surface Mining Operations Through December 2011

Montan	Montana Surrace Mining Operations Through December, 2011	ııng Operatı	ons Inrougn	December,	רוטצ
Company	Federal	State	Indian	Private	Total
Signal Peak				28,589,914	28,589,914
Decker Coal	374,805,716	63,528,072		118,683,352	557,017,140
Spring Creek	261,029,727	46,044,232		19,884,354	326,958,313
Western Energy	266,491,355	5,014,932		168,420,261	439,926,548
Westmoreland Resource1		4,617,797	4,617,797 \$118,923,324	953,442	124,494,563
Westmoreland	4,085,471			1,363,326	5,488,797
Savage					

\$906,412,269 \$119,205,033 \$118,923,324 \$337,894,649 \$1,482,435,275

* Source: Individual Companies

Montana's surface mining industry furnishes some of the highest-paying and Production, Employment and Payroll most-sought-after jobs in the state.

		Estimated	Payroll	16,700,000	9,200,000	21,770,000	27,128,000	11,054,000	906,000	\$86 758 000
		Number of	Employees	255	159	245	370	155	15	1 199
	2011	Coal Production							.35	41 95
,		0		Signal Peak Energy	Decker Coal Co.	Spring Creek Coal Co.	Western Energy Co.	Westmoreland Resources	Westmoreland Savage	

Source: Individual Companies

Production and Value

The following chart shows production for 2002 through 2011. The price per ton at the various sites depends on the quality of coal (heating value, moisture content, sulfur and ash content, etc.) but an average for Fiscal Year 2011 was \$11.33 per ton making the value of that coal over \$475 million. The price is established by the Department of Revenue after three state and two federal taxes are deducted.

I Production	Million Tons	37.3	37.0	40.1	40.6	41.8	43.2	44.9	39.6	44.7	42.0	
Coal			2003									

* Source: Department of Labor & Industry, Safety Bureau

PM¹⁰ Emissions (Respirable-Size Particulates) Colstrip Units 1-4 and Montana Wildfire Comparison Between

Wildfire puts out over 1,000 pounds of PM¹⁰ per acre. In the year 2000, 965,000 acres burned in Montana resulting in 482,000 tons of PM10 in the air. Colstrip Units 1-4 emit 255 tons/year of PM10. PM10 emitted by wildfires in Montana in the year 2000 is equal to 1,892 years of Colstrip Sources: North Elkhorns Environmental Assessment, Helena National Forest, & Montana Department of Environmental Quality

Montana Coal Council with the assistance of Council is a trade association whose members are involved in the production of coal in Montana. We the need for a federal energy policy that will lead to the development of domestic energy sources and This brochure was prepared by the staff of the informational sources quoted. The Montana Coal support realistic state and national environmental and social standards. The council also recognizes reducing this nation's dependence on foreign oil.

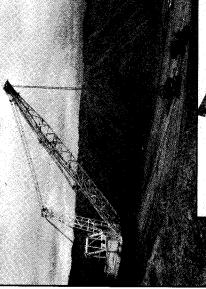
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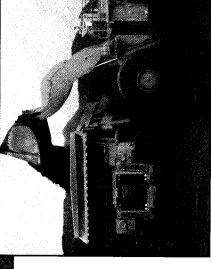
Montana

2012

Coal

EXHIBIT NO





Every ton of Montana coal replaces 3 1/2 barrels of foreign oil.

1. The Severance Tax - Prior to 1975, Montana's coal severance tax was assessed on a cents-per-ton basis. In 1975 the Legislature enacted the highest severance tax in the nation, based on percentage of the mine-mouth price of the coal. The percentage was tied to the heating quality of the coal - 30 percent for subbituminous and 20 percent for lignite. However, the 1987 Legislature enacted a law to gradually reduce the taxes on coal in 5 percent increments over the next few years if a target tomage of 32.2 million tons was produced in Fiscal Year 1988. That target was met; and the tax dropped to 25 percent on July 1, 1988; to 20 percent on July 1, 1990; and to 15 percent on July 1, 1991.

199394 199495 199596 199697 199798 199899 199899 199899 199900 200203 200203 200304 200405 200506 200607 200809 200809 200809 200809 2008010	FY 1975/76 1976/77 1977/78 1977/78 1977/78 1978/79 1979/80 1980/81 1982/83 1982/83 1983/84 1984/85 1985/86 1986/87 1987/88 1988/89 1988/89 1988/89 1988/89 1988/89 1989/90 1990/91 1991/92
41,200,000 40,416,000 36,261,000 37,740,000 35,745,000 35,470,000 31,614,000 31,634,000 31,545,000 35,822,000 40,759,000 43,825,000 43,825,000 43,825,000	\$ 23,965,000 35,906,000 42,639,000 75,125,000 80,045,000 80,045,000 82,823,000 91,749,000 84,638,000 84,638,000 67,871,000 50,488,000 43,434,000 38,181,000

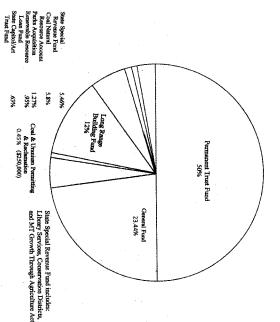
Allocations 1975/76 through 2010/11

Source: Montana Department of Revenue

The above figures do not include coal severance taxes paid since 1988 by Westmoreland Resources Inc. on coal owned by the Crow Tribe. WRI pays coal severance taxes and gross proceeds taxes directly to the Crow Tribe and not to the state of Montana or the county.

Growth Through Agriculture Act. Unspent money goes to the General Fund. State Special Revenue Fund includes Library Services, Conservation Districts and MT

MONTANA COAL TAX DISTRIBUTION Source: 15-35-108, MCA



 Net (prior to 1975) and Gross Proceeds Taxes - These are additional taxes paid
on the value of the coal to support county government in the counties where the mines
are located. \$419,400,347 has been collected by Big Horn, Richland, Musselshell,
and Rosebud Counties through FY 2010. The figure for FY 2011 is \$15,627,949, bringing the total to date to \$435,028,296.

Source: Montana Department of Revenue

3. Resource Indemnity Trust Tax - As of 1973, all nonrenewable resource producers have been required to pay this tax which on coal is now 0.4 percent of gross value. The total collections from FY 1974 through FY 2010 were \$39,023,631. The FY 2011 figure was \$1,793,204 making the total taxes paid \$40,816,835.

Source: Montana Department of Revenue

4. Federal Taxes - In addition to state taxes, Montana surface mining operations pay a tax for abandoned mine reclamation, mostly abandoned hardrock mines, consisting of 9 cents per ton for lignite or 31.5 cents per ton for all other types of coal.

ton, whichever is less, is paid to a fund for black lung disease victims, even though this disease is primarily suffered by underground miners. Also, 4.4 percent of the FOB mine price (less the black lung tax) or 55 cents per

Property Taxes - Property taxes paid in 2011 by the coal mines to the counties here the mines are located. Does not include gross proceeds taxes

Big Horn Co. Decker Coal Co.	380,948
Spring Creek Coal Co. Westmoreland Resources	857,797 530 929
Musselshell Co.	
Signal Peak Energy	1,502,910
Richland Co. Westmoreland Savage	42,657
Rosebud Co. Western Energy Co.	372,561
	\$3,687,802

99/00) 98/99) 94/95) 94/95) 94/95) 91/92) 89/90)

88/89)

04/05)

* Source: County treasurers

as 50 percent of mine employees who work in Montana and pay its state income tax live in Sheridan County, Wyoming, because it is the closest urban center. based on an average gross income of \$72,359 per year with two exemptions. Under that formula, the state of Montana would receive more than \$4.3 million annually and the 6. Personal Income Tax - While it is difficult to determine the amount of personal actual amount is probably higher. It may be of interest to note that perhaps as many income tax paid to the state by surface mine employees, we have made a general estimate

Major Holders of U.S. Coal Reserves-2010 (billion short tons)

 International Coal Corp. Kentucky River Properties Cloud Peak Energy 	 Patriot Coal Corp. Pocahontas Land Corp. (Norfolk Southern) 	10. Alpha Natural Resources LLC	9. Natural Resource Partners LP	8. The North American Coal Corp.	6. Foresight Energy (Cline Group) 7. Massey Energy Co	CONSOL Energy Inc.	4. Arch Coal, Inc.	Peabody Energy Corp.	Great Northern Properties Limited Partnership	 U.S. Government 	Holder Est
1.1 1.0 1.0	1.9 1.7	2.3	2.3	2.3	3.0 8	4.4	4.4	9.0	20.0	87.0	Estimated Reserves

Source: National Mining Association

15. Navajo NM 7.8 BHP Billiton	10.8 I	11.3	11.4		ND 14.6	19.3	23.2	WY 23.5	25.5	25.8	35.9	38.6	105.8	116.2	Mine Name Located Tonnage Company	State 2010 Operating	(million short tons)	15 Largest U.S. Surface Coal Mines, 2010
BHP Billiton	Luminant Mining	Peabody Energy Subsidiary	Arch Coal, Inc.	Western Energy Co.	Coteau Properties	Cloud Peak Energy	Alpha Coal West	Peabody Energy Subsidiary	Buckskin Mining (Kiewit)	Alpha Coal West	Cloud Peak Energy	Cloud Peak Energy	Peabody Energy Subsidiary	Arch Coal, Inc.	Company	Operating		es. 2010

Source: National Mining Association

Did You Know?

- The average train load of coal in Montana is assessed approximately \$30,800 in federal, state, and local taxes.
- Coal provides close to one half of the total amount of electricity used in the United States each day.
- Regulated emissions from coal-based electricity generation have decreased overall by over 50% since the 1970s while coal use has tripled, according to

Coal is the most affordable source of power fuel per million Btu, averaging

less than one-quarter the price of petroleum and natural gas.

- The coal industry routinely reclaims thousands of acres of mined lands each year, returning them to productive use in the ecosystem.
- Coal is actually "buried sunshine," because it originated from prehistoric plants that lived some 300 million years ago.
- Coal accounts for about 94% of America's fossil energy reserves and is larger than either world petroleum or natural gas reserves, when measured in terms
- The largest coal producing state is Wyoming, with nearly 438 million tons of
- Coal provides employment for nearly 135,000 miners directly, with additional 3.5 jobs created throughout the economy for each miner's job (electric utilities, transportation, manufacturing, etc.)

Glossary of Coal Terms

primarily in Pennsylvania. electricity. Anthracite coal deposits total some 7 billion tons and are located a large heating value of 15,000 Btu; carbon content of 86-97%; and moisture content of less than 15\%. Used primarily for space heating and generating Anthracite - Called hard coal, highest rank of economically usable coal. Has

peratu **Btu** - British thermal unit. A measure of the energy required to raise the temare of one pound of water one degree Fahrenheit.

Bituminous - Called soft coal, most common type. Has a heating value of 10,500-15,500 Btu; carbon content of 45-86%; and moisture content usually scattered across the country and total some 238 billion tons. less than 20%. Mined chiefly in Appalachia and Midwest. Reserves are widely 0-15,500 Btu; carbon content of 45-86%; and moisture content usually

Coal resources, according to the U.S. Geological Survey. be mined or recovered. The U.S. may have as much as 4 trillion tons of coal Resources - Total coal deposits, regardless of whether they can now

shapes by allowing them to settle in a fluid. Coal Coal Washing - The process of separating coal of various sizes, densities and Seam - A bed or stratum of coal; usually applied to large deposits of coal.

reserves in the \cup .S. on an **Demonstrated Reserves** - Coal deposits which are potentially mineable Administration estimates that there are about 494.1 billion tons of demonstrated economic basis with existing technology. The U.S. Energy Information

crude oil and natural gas. Fossil Fuel - Any naturally occurring fuel of an organic nature, such as coal

medi Gasi as hig Louisiana, Montana, North Dakota and Texas. Mostly used to make electricity Lignite - Brownish-black coal with generally high moisture content and lower th as 45%. Demonstrated reserves of 45 billion tons are mined primarily in ng value (4,000-8,300 Btu). Carbon content of 25-35%; moisture sometimes fication - Any of various processes by which coal is turned into low ım, or high Btu gases.

crude Liquefaction - Converting coal into synthetic liquid fuel, similar in nature to oil and/or refined products such as gasoline.

at power plants located relatively close to the coal mine.

fired Magr Mine-Mouth Plant - Commonly a steam-electric plant built close to a coal a magnetic field, producing electricity. This process is still in the research stage. are added, producing a gas of high conductivity. The gas is then passed through in a low-resistance time burner at very high temperatures. Potassium salts netohydrodynamics - Also known as MHD. Coal and preheated air are

demo mine Recoverable Reserves - The amount of coal that can be recovered from the and for underground mines about 60%. Using these percentages, there are Instrated reserve base. The recovery factor for surface mines is about 80which delivers its electricity output to a distant point by transmission lines. 296.5 billion tons of recoverable reserves in the U.S., enough to last more

inert to remove sulfur compounds formed during coal combustion. These devices combine the sulfur in gaseous emissions with another chemical medium to form Scrubber - Any of several forms of chemical-physical devices which operate "sludge," which must then be removed for disposal.

250 years at current production levels.

areas or eliminating the need for large stockpiles of coal. show currently operating, although several others have been proposed. Water is the Slurry Pipeline - Pipeline for transporting viscous mixture of coal and liquid medium now is use, but experiments with oil, liquid methane or carbon dioxide short-haul transport, such as from a port facility to a nearby power plant, reducing promise of increased efficiency and reduced environmental concerns in where water supplies are scarce. These pipelines might also be used for m. Only one such line, a 273-mile system from Arizona to Nevada, is

strated reserves total about 180 billion tons and are located in Montana, Wyoming, Color Subbituminous - Dull black coal with heating value ranging between 8,300electricity and for space heating. 11,500 Btu; carbon content, 35-45%; and moisture content, 20-30%. Demonado, New Mexico, Washington and Alaska. Primarily used for generating

Tons - A short or net ton is equal to 2,000 pounds; a long ton or British ton is 2,240 pounds; a metric ton is approximately 2,205 pounds. pounds; a metric ton is approximately 2,205 pounds.

mine and a customer. A typical unit train can carry at least 10,000 tons of coal Train - Long train of 60-150 hopper cars carrying only coal between a